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1. Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Trade name : FEHLING'S SOLUTION NO.1 Product code : 14360 **1.2.** Relevant identified uses of the substance or mixture and uses advised against **Use** : Industrial. For professional use only. **1.3.** Details of the supplier of the safety data sheet **Company identification** : MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503. **1.4.** Emergency telephone number Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm). 2. Hazards identification -DSD 2.1. Classification of the substance or mixture Classification EC 67/548 or EC 1999/45 **Classification** : N: R51-53 Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP) Environmental hazards : Hazardous to the aquatic environment - Chronic hazard -Category 2 (CLP : Aquatic Chronic 2) H411 2.2. Label elements Labelling EC 67/548 or EC 1999/45 **Symbol(s)** : N : Dangerous for the environment **R** Phrase(s) : R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **S** Phrase(s) : S35 : This material and its container must be disposed of in a safe way. S57 : Use appropriate container to avoid environmental contamination. S59 : Refer to manufacturer/supplier for information on recovery/recycling. S60: This material and its container must be disposed of as hazardous waste. S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets. Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms

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Signal words : None.

Hazard statements : H411 : Toxic to aquatic life with long lasting effects. **Hazard pictograms**



Precautionary statements

• **Prevention** : P273: Avoid release to the environment.

• **Response** : P391: Collect spillage.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Preparation.

Hazardous component(s) : This product is hazardous.

| Substance name | Contents | CAS No |
|--------------------|------------|-----------|
| Sulfato de cobre : | > 5 < 10 % | 7758-99-8 |
| Water : | >75 < 99 % | 7732-18-5 |

4. First aid measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

<u>5. Fire-fighting measures</u>

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5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment. **6.3** Methods and meterial for containment and cleaning up

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.7.3. Specific end use(s)

Specific end use(**s**) : None.

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8. Exposure controls/personal protection 8.1. Exposure controls **Personal protection** : Avoid all unnecessary exposure. • **Respiratory protection** : Wear approved mask. • Hand protection : Wear protective gloves. • Eve protection : Chemical goggles or safety glasses. • Others : When using, do not eat, drink or smoke. 8.2. Control parameters Occupational Exposure Limits : No data available. 9. Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state at 20 °C : Liquid. **Odour threshold** : No data available. **pH value** : No data available. **Melting point** [°C] : No data available. **Decomposition point** [°C] : N/A **Critical temperature** [°C] : No data available. **Auto-ignition temperature** [°C] : No data available. Flammability (solid, gas) : N/A **Flash point** [°C] : No data available. **Boiling point** $[^{\circ}C] :> 100 \ ^{\circ}C$ **Initial boiling point** [°**C**] : No data available. **Final boiling point** [°**C**] : No data available. **Evaporation rate : N/A Vapour pressure [20°C]** : No data available. Vapour pressure mm/Hg : 14 mm Hg @200C Vapour density : N/A **Density [g/cm3]** : 1.04 g/cm3 20 °C Relative density, gas (air=1) : N/A **Relative density, liquid (water=1)** : N/A Solubility in water [% weight] : Soluble in water Solubility in water : No data available. Log Pow octanol / water at 20°C : No data available. Solubility : N/A Viscosity at 40°C [mm2/s] : No data available. 9.2. Other information

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Explosive properties : N/A

Explosion limits - upper [%] : No data available.

Explosion limits - lower [%] : No data available.

Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

<u>11. Toxicological information</u>

11.1. Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity

• Inhalation : Based on available data, the classification criteria are not met.

• **Dermal** : Based on available data, the classification criteria are not met.

• Ingestion : Based on available data, the classification criteria are not met.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met. **STOT-repeated exposure** : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

<u>12. Ecological information</u>

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12.1. Toxicity

Toxicity information : Toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

<u>14. Transport information</u>

14.1. Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. **UN N°** : 3082 **H.I. nr** : 90 ADR - Class : 9 **Labelling - Transport**: 9 : Miscellaneous dangerous substances and articles. 9 : Miscellaneous dangerous substances and articles. ADR - Classification code : M6 ADR - Group : III ADR - Packing instructions : P001 R001 LP001 **ADR - Limited Quantity** : 5 L **ADR - Tunnel code**: E : Passage forbidden through tunnels of category E. 14.2. Sea transport (IMDG) [English only] **Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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UN N° : 3082 **IMO-IMDG - Class or division** : 9 : Miscellaneous dangerous substances and articles. (9: Miscellaneous dangerous substances and articles.) **IMO-IMDG - Packing group** : III **IMO- IMDG - Packing instructions** : P001 LP01 **IMO-IMDG - Limited quantities : 5** L **IMO-IMDG - Marine pollution** : Yes EMS-Nr : F-A S-F **14.3.** Air transport (ICAO-IATA) [English only] **Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,** LIOUID, N.O.S. **UN N°** : 3082 IATA - Class or division : 9 : Miscellaneous dangerous substances and articles. (9 : Miscellaneous dangerous substances and articles.) IATA - Packing group : III IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing : 964 instruction - Passenger and Cargo - Maximum : 450 L **Ouantity/Packing IATA - Cargo only :** ALLOWED - Cargo only - Packing instruction : 964 - Cargo only - Maximum Quantity/: 450 L Packing IATA - Limited Quantites : 30 kg G ERG-Nr:9L **15. Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **Safety, health and environmental** : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture **REACH Restrictions - Annex XVII** : The components of this product are not subject to

restrictions. **REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

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16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 **Further information** : None.

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